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PTO/SB/17 (12-04)  
Approved for use through 07/31/2006. OMB 0651-0032  
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|  |  |                          |                                 |
|--|--|--------------------------|---------------------------------|
| <b>Effective on 12/8/2004.</b><br><b>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</b> |  | <b>Complete if Known</b> |                                 |
| <b>FEE TRANSMITTAL</b><br><b>For FY 2005</b>   |  | Application Number       | 10/699,828                      |
|  |  | Filing Date              | 11/04/03                        |
|  |  | First Named Inventor     | MAMITSU et al.                  |
|  |  | Examiner Name            | Potter, Roy Karl                |
| <input type="checkbox"/> Applicant Claims small entity status. See 37 CFR 1.27                                   |  | Art Unit                 | 2822                            |
| TOTAL AMOUNT OF PAYMENT (\$)   |  | 180                      | Attorney Docket No. 01-103-CON1 |

**METHOD OF PAYMENT (check all that apply)**

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account Deposit Account Number: 50-1147 Deposit Account Name: Posz & Bethards, PLC

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charges fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   |                |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    |                |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    |                |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   |                |
| Provisional      | 160         | 80                    | 0           | 0                     | 0                | 0                     |                |

**2. EXCESS CLAIM FEES**

| Fee Description   | Fee (\$) | Small Entity Fee (\$) |
|---|----------|-----------------------|
| Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent            | 18       | 9                     |
| Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent | 88       | 44                    |
| Multiple dependent claims   | 300      | 150                   |

| Total Claims | Extra Claims   | Fee (\$) | Fee Paid (\$) | Multiple Dependent Claims | Fee (\$) | Fee Paid (\$) |
|--------------|----------------|----------|---------------|---------------------------|----------|---------------|
| 0            | - 20 or HP = 0 | x \$50   | = \$0         |                           |          |               |

HP = highest number of total claims paid for, if greater than 20

| Indep. Claims | Extra Claims  | Fee (\$) | Fee Paid (\$) |
|---------------|---------------|----------|---------------|
| 0             | - 3 or HP = 0 | x \$200  | = \$0         |

HP = highest number of independent claims paid for, if greater than 3

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$ \_\_\_\_\_ (\$ for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41 (a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$)                       | Fee Paid (\$) |
|--------------|--------------|--|--------------------------------|---------------|
|              | - 100 =      | / 50 =   | (round up to a whole number) x | = \$0         |

**4. OTHER FEE(S)**

|   |                                      |       |
|---|--------------------------------------|-------|
| Non-English Specification,                  | \$130 fee (no small entity discount) |       |
| Other: Information Disclosure Statement Fee |                                      | \$180 |

**SUBMITTED BY**

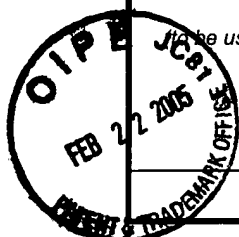
|                   |               |  |                          |
|-------------------|---------------|--|--------------------------|
| Signature         |               | Registration No. (Attorney/Agent) 37,701 | Telephone (703) 707-9110 |
| Name (Print/Type) | DAVID G. POSZ | Date                                     | February 22, 2005        |

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

# TRANSMITTAL FORM

*To be used for all correspondence after initial filing)*



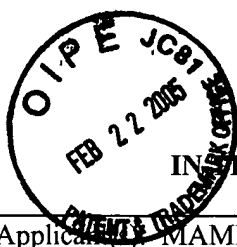
|                        |                  |
|------------------------|------------------|
| Application Number     | 10/699,828       |
| Filing Date            | November 4, 2003 |
| First Named Inventor   | MAMITSU et al.   |
| Group Art Unit         | 2822             |
| Examiner Name          | Potter, Roy Karl |
| Attorney Docket Number | 01-103-CON1      |

## ENCLOSURES (check all that apply)

|   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input checked="" type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment / Response<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts/Incomplete Application<br><br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Assignment Papers (for an Application)<br><input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition<br><input type="checkbox"/> To Convert a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Small Entity Statement<br><input type="checkbox"/> Request of Refund | <input type="checkbox"/> After Allowance Communication to Group<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input type="checkbox"/> Additional Enclosure(s) (please identify below):<br><br><br><br> |
| Remarks<br><br>   |  |   |

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

|                         |                      |
|-------------------------|----------------------|
| Firm or Individual name | Posz & Bethards, PLC |
| Signature               |                      |
| Date                    | February 22, 2005    |



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MAMITSU et al.

Atty. Dkt.: 01-103-CON1

Serial No.: 10/699,828

Group Art Unit: 2822

Filed: November 4, 2003

Examiner: Potter, Roy Karl

Title: SEMICONDUCTOR DEVICE HAVING  
RADIATION STRUCTURE

Commissioner for Patents  
Alexandria, VA 22314

Date: February 22, 2005

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §1.56, the references listed on the attached Form PTO-1449 are being brought to the attention of the Examiner without any admission that they constitute statutory prior art, or without any admission that they contain subject matter that anticipates the invention or renders the invention obvious to a person of ordinary skill in the art.

As a first Office Action on the merits has been mailed in the above identified application, the fee due under 37 C.F.R. 1.17(p) is enclosed. Please charge any additional fee to Applicant's attorney's Deposit Account No. 50-1147.

Respectfully submitted,

David G. Posz  
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|               |                              |                     |
|---------------|------------------------------|---------------------|
| FORM PTO-1449 | ATTY. DKT NO. 01-103-CON1    | SER. NO. 10/699,828 |
|               | APPLICANT MAMITSU et al.     |                     |
|               | FILING DATE November 4, 2003 | GROUP 2822          |

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE    | NAME             | CLASS | SUB CLASS |
|------------------|-----------------|---------|------------------|-------|-----------|
|                  | 6,555,052       | 04/2003 | Soga et al.      |       |           |
|                  | 6,426,877       | 07/2002 | Baba             |       |           |
|                  | 2003/0186072    | 10/2003 | Soga et al.      |       |           |
|                  | 2003/0166812    | 09/2003 | Taniguchi et al. |       |           |
|                  | 6,084,284       | 07/2000 | Adamic, Jr.      |       |           |
|                  | 5,915,179       | 06/1999 | Etou et al.      |       |           |
|                  | 2003/0042537    | 03/2003 | Nakamura et al.  |       |           |
|                  | 5,977,570       | 11/1999 | Takahashi et al. |       |           |
|                  | 5,663,097       | 09/1997 | Sakamoto et al.  |       |           |
|                  | 2002/0109183    | 08/2002 | Ishimura et al.  |       |           |
|                  | 2003/0047778    | 03/2003 | Nakamura et al.  |       |           |
|                  | 5,723,882       | 03/1998 | Okabe et al.     |       |           |
|                  | 6,353,258       | 03/2002 | Inoue et al.     |       |           |
|                  | 5,364,802       | 11/1994 | Kataoka et al.   |       |           |

## FOREIGN PATENT DOCUMENTS

## TRANSLATION

|  | DOCUMENT NUMBER | DATE    | COUNTRY | NAME | CLASS | SUB CLASS | YES | NO |               |
|--|-----------------|---------|---------|------|-------|-----------|-----|----|---------------|
|  |                 |         |         |      |       |           |     |    | Eng. Abstract |
|  | 2000-31355      | 01/2000 | JAPAN   |      |       |           |     |    | X             |
|  | 10-65072        | 03/1998 | JAPAN   |      |       |           |     |    | X             |
|  | 11-284103       | 10/1999 | JAPAN   |      |       |           |     |    | X             |

\* Full English text is available in machine-translated form in JPO (Japanese Patent Office) English language web site at <http://www1.lpadl.jpo.go.jp/PA1/cgi-bin/PA1INDEX>.

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

|          |                 |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|